

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/437,898- 10/809757
Filing Date	MAY 2, 2002
First Named Inventor	FRANK P. UCKERT ET AL.
Group Art Unit	1711
Examiner Name	UNKNOWN
Attorney Docket Number	PE0667 US NA

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
lee		US - 5,777,070 A		07/07/1998	INBASEKARAN ET AL.	
lee		US - 5,998,045 A		12/07/1999	CHEN ET AL.	
		US -				
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**FOREIGN PATENT DOCUMENTS**

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		CountryCode <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
lee		WO	99/54943	A1	10/28/1999	DOW CHEMICAL CO.		<input type="checkbox"/>
		WO	00/53658	A1	09/14/2000	CAMBRIDGE DISPLAY TECHNOLOGY LTD		<input type="checkbox"/>
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3/15/06

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet

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~~10/137,898~~ 10/809757

Filing Date

MAY 2, 2002

First Named Inventor

FRANK P. UCKERT ET AL.

### Group Art Unit

1711

**Examiner Name**

UNKNOWN

Attorney Docket Number

PE0667 US NA

[illegible][illegible]

**Examiner  
Signature**

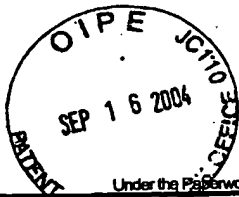
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Substitute for form PTO/SB/08A

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

### Complete if Known

Application Number	10/809,737
Filing Date	March 25, 2004
First Named Inventor	Frank P. Uckert et al.
Group Art Unit	1714
Examiner Name	Unknown
Attorney Docket Number	PE0667USDIV

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code 2 (if known)				
/s/		US - 4,508,639	04-02-1985	Camps et al.		
		US - 5,621,131A	04-15-1997	Kreuder et al.		
		US - 5,814,244A	09-29-1998	Kreuder et al.		
		US - 5,821,002A	10-13-1998	Ohnishi et al.		
		US - 5,856,434A	01-05-1999	Stem et al.		
		US - 5,962,631A	10-05-1999	Woo et al.		
		US - 5,900,327A	05-04-1999	Pel et al.		
		US - 6,309,763 B1	10-30-2001	Woo et al.		
		US - 6,353,083 B1	03-05-2002	Inbasekaran et al.		
		US - 6,541,602 B1	04-01-2003	Spreitzer et al.		
/s/		US - 6,653,438 B1	11-25-2003	Spreitzer et al.		
		US - 6,605,373 B1	08-12-2003	Woo et al.		
		US -				
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		CountryCode 3 Number 4 Kind Code 5 (if known)					
/s/		EP 0 259 229 B1	09-02-1987	Makromolekulare Chemie			<input type="checkbox"/>
		EP 0 956 312 B1	01-29-1998	JSR Corporation			<input type="checkbox"/>
		WO 01/07502 A2	02-01-2001	Cambridge Display Techn			<input type="checkbox"/>
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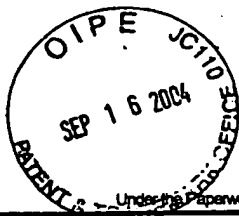
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PTO/SB/08B (08-03)  
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

### Complete if Known

Application Number	10/809,737
Filing Date	March 25, 2004
First Named Inventor	Frank P. Uckert et al.
Group Art Unit	1714
Examiner Name	Unknown
Attorney Docket Number	PE0867USDIV

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
lc		DE 19846767, Partially conjugated polymer useful as an organic semiconductor or an electroluminescence material, and for display elements in television monitor and illumination technology contains fluorene building units, Abstract, 08-13-2000, Aventis Res & Technologies GmbH	<input type="checkbox"/>
		JP 2000319272, (Diarylamino) furan analogues with improved stability, useful pharmaceutical intermediates and electron hole transport or photosensitive materials, Abstract, 04-21-2001, Tosoh Corp	<input type="checkbox"/>
		JP 08157575, Carrier transport polymers -- useful as carrier transport materials in organic thin film electroluminescence devices, Abstract, 10-25-1998, Toppan Printing Co. Ltd.	<input type="checkbox"/>
		JP 2000143778, Display element such as cathode ray tube and light emitting diode, comprises specified light emitting compound as color developing materials, Abstract, 10-06-2000, Samsung Denkan KK	<input type="checkbox"/>
		JP 10273522, Production of phenylene group-containing copolymers -- comprises copolymerizing phenylene group-containing compounds in presence of catalysts containing transition metal compounds, Abstract, 01-13-1999, Nippon Gosei Gomu KK	<input type="checkbox"/>
		JP 10273521, Production of phenylene group-containing copolymers -- comprises copolymerizing phenylene group-containing compounds in presence of catalysts containing transition metal compounds, Abstract, 12-23-1999, Nippon Gosei Gomu KK	<input type="checkbox"/>
		JP 03028220, Electrochromic elements for display or optical shield glass -- contg. film of polyphenylene polymer derived from fluorene, Abstract, 09-28-1993, Idemitsu Kosan Co. Ltd.	<input type="checkbox"/>
		JP 03017120, Polyphenylene polymers used as conductive material or display material are produced by chemical or electrochemical-oxidative polymerizing of specified fluorene derivs, Abstract, 09-28-1993, Idemitsu Kosan Co. Ltd.	<input type="checkbox"/>
		JP 02269734, New polyphenylene-type polymer prepd. By oxidn. Polymerization of fluorene derivs., Abstract, 09-28-1993, Idemitsu Kosan Co. Ltd.	<input type="checkbox"/>
lc		KR 99057430, Fluorene-based alternating statistical copolymer containing multi-luminescence groups and electroluminescence device using the same, Abstract, 07-15-1999, Korea Adv Inst Sci & Technology	<input type="checkbox"/>
			<input type="checkbox"/>

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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	10/809,737		
		Filing Date	March 25, 2004		
		First Named Inventor	Frank P. Uckert Et. Al.		
		Art Unit	1714		
		Examiner Name	Unknown		
Sheet	1	of	1	Attorney Docket Number	PE0667USDIV

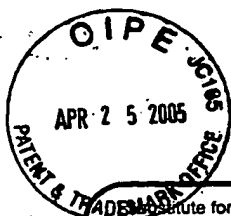
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
lc		COWELL, ALLAN B. ET AL., Fluoroalkylation of Aromatic Compounds, Journal of Fluorine Chemistry, 17, 1981, 345-356, Elsevier Sequola S.A., Lausanne, The Netherlands	<input type="checkbox"/>
lc		KAMIGATA, NOBUMASA ET AL., Direct Perfluoroalkylation of Aromatic and Heteroaromatic Compounds with Perfluoroalkanesulfonyl Chlorides Catalysed by a Ruthenium (II) Phosphine Complex, J. Chem. Soc. Perkin Trans., 1, 1994, 1339-1346	<input type="checkbox"/>
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Examiner Signature	<i>Luc Chai</i>	Date Considered	3/15/06
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Attorney Docket Number	PE0667US DIV

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lc		US -	5,777,070 A	07-07-1998	Inbasekaran et al.	
		US -	5,807,974 A	09-15-1998	Kim et al.	
lc		US -	5,876,864 A	03-02-1999	Kim et al.	
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		CountryCode <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
lc			WO 01/77203 A2	10-18-2001	Uniax Corporation		<input type="checkbox"/>
			WO 02/066537 A1	08-29-2002	Cambridge Display Techn		<input type="checkbox"/>
			WO 01/81294 A1	11-01-2001	Sony International GmbH		<input type="checkbox"/>
			WO 01/42331 A1	06-14-2001	Cambridge Display Tech & Max Planck Inst for Poly		<input type="checkbox"/>
			WO 00/46321 A1	08-10-2000	The Dow Chemical Co.		<input type="checkbox"/>
			WO 00/22027 A1	04-20-2000	Axiva GmbH		<input type="checkbox"/>
			WO 99/54385 A1	10-28-1999	The Dow Chemical Co.		<input type="checkbox"/>
			WO 00/53656 A1	09-14-2000	Cambridge Display Techn		<input type="checkbox"/>
lc			WO 00/55927 A1	09-21-2000	Cambridge Display Techn		<input type="checkbox"/>

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Filing Date	March 25, 2004
				First Named Inventor	Frank P. Uckert Et. Al.
				Art Unit	1714
				Examiner Name	Unknown
				Attorney Docket Number	PE0667USDIV
(Use as many sheets as necessary)					
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
LC		KOREAN PATENT ABSTRACTS, KR 00245841 B1, Fluorene-Based Alternating-Statistical Copolymer Containing Multi-Luminescence Groups and Electroluminescence Device Using The Copolymer, 12-01-1999, Korea Institute of Science and Technology	<input type="checkbox"/>
		KREYENSCHMIDT M. et al., Thermally Stable Blue-Light-Emitting Copolymers of Poly(alkylfluorene), Macromolecules, 1998, 1099-1103, 31, American Chemical Society	<input type="checkbox"/>
LC		LEE, JEONG-IK et al., Light-emitting electrochemical cells based on poly(9,9-bis(3,6-dioxaheptyl)-fluorene-2,7-diyl), Synthetic Metals, 2000, 195-197, 111-112, Elsevier Science S.A.	<input type="checkbox"/>
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